

A promotional banner for AWS Security Speciality. The background is dark blue with a subtle pattern of dots. On the right, there's a large, glowing blue cloud icon containing a white shield with a padlock. To the left of the cloud, the text 'MASTER' is in white, 'AWS SECURITY' is in large orange letters, and 'SPECIALITY' is in white. Below this, a white box contains the text 'SECURE. MONITOR. PROTECT. BUILD TRUST IN THE CLOUD.' In the center, there are five circular icons representing different security domains: Threat Detection (blue shield with magnifying glass), Security Monitoring (purple cloud with bar chart), Identity & Access Management (green padlock with person), Data Protection (orange shield with checkmark), and Secure Infrastructure (blue gear). To the right of these icons is a box with a trophy icon and the text 'PREPARE FOR AWS CERTIFIED SECURITY SPECIALTY SCS-C02'. At the bottom, there's a yellow button with a calendar icon and 'REACH US FOR A FREE DEMO!', a phone icon with the number '+91 99514 40801', a globe icon with the website 'www.sqlschool.com', and the 'SQL School' logo with the tagline 'Learn Today. Lead Tomorrow.'

Pre-Requisite: AWS Fundamentals

Course Contents:

Module 1: AWS Cloud Concepts

- CloudWatch Contributor Insights
- Amazon EventBridge
- Amazon Athena
- CloudTrail
- CloudTrail - EventBridge Integration
- CloudTrail to CloudWatch Metrics Filter - Example
- CloudTrail - Integration with Athena
- Monitoring Account Activity
- Macie
- S3 Event Notifications
- VPC Flow Logs
- VPC Traffic Mirroring
- VPC Network Access Analyzer
- Route 53 - Query Logging
- Open Search

Module 2: Infrastructure Security

- Bastion Host
- Site to Site VPN
- Client VPN
- VPC Peering
- DNS Resolution Options in VPC

- VPC Endpoints
- PrivateLink
- NACL & Security Groups
- Security Groups Outbound Rules & Managed Prefixes
- AWS Transit Gateway
- CloudFront
- CloudFront - Geo Restriction
- CloudFront - Signed URL & Cookies
- CloudFront - Field Level Encryption
- Origin Access Control and Origin Access Identity (OAC & OAI)
- WAF
- Shield
- AWS Firewall Manager
- AWS Shield Advanced - Metrics
- DDoS Attack Protection
- API Gateway AWS Artifact
- Route 53 - DNSSEC
- AWS Network Firewall
- Amazon SES

Module 3: Identity and Access Management

- IAM Policies in Depth
- IAM Condition Operators
- IAM Global condition context keys
- IAM Permission Boundaries
- IAM Policy Evaluation Logic
- Identity-Based Policies vs. Resource-Based Policies
- ABAC (Attribute based access control)
- IAM MFA
- IAM Credentials Report
- IAM Roles and PassRole to Services
- STS
- STS External ID Sample SCP
- EC2 Instance Metadata
- S3 - Authorization Evaluation Process
- S3 - Cross Account Access and Canned ACL
- S3 - Samples S3 Bucket Policies
- VPC Endpoint Strategy
- S3 - Regain Access to Locked S3 Bucket
- S3 - Block Public Access Settings
- S3 Access Points
- S3 Multi-Region Access Points
- S3 CORS
- Cognito User Pools
- Cognito Identity Pools
- Cognito User Pool User Groups
- Identity Federation & Cognito
- AWS IAM Identity Center
- AWS Directory Services

Module 4: Data Protection

- Encryption
- CloudHSM
- KMS
- KMS Multi Region Key
- KMS Envelope Encryption
- KMS Key Rotation
- KMS Key Deletion
- KMS Grants
- KMS Condition Keys
- KMS Key Policies Evaluation Process
- KMS Key Cross-Account Access
- KMS Asymmetric Encryption
- KMS API Calls Limits and Data Key Caching
- KMS with EBS
- EFS Encryption
- KMS with ABAC
- KMS with Parameter Store
- Secrets Manager
- S3 Encryption
- S3 Default Encryption
- S3 Bucket Policies
- S3 Bucket Key
- Large File Upload to S3 with KMS Key
- S3 Batch Encryption
- S3 Object Lock & Glacier Vault Lock
- S3 Lifecycle Rules
- S3 Replication
- Network Load Balancer Advanced
- ELB Sticky Sessions
- ELB SSL Certificates
- Network Load Balancer - TLS Listeners
- AWS Certificate Manager (ACM)
- AWS Backup
- Amazon Data Lifecycle Manager
- AWS Nitro Enclaves

Module 5: Management and Security Governance

- Organizations
- AWS Organizations - IAM Policies & Tag Policies
- AWS Control Tower
- AWS Config
- [SOA] AWS Config - Aggregators
- Trusted Advisor
- AWS Cost Explorer
- AWS Cost Anomaly Detection
- AWS Well-Architected Framework & Well-Architected Tool
- Audit Manager
- CloudFormation
- CloudFormation - Drift

- CloudFormation - Termination Protection
- CloudFormation - Stack Policy
- CloudFormation - Dynamic References
- CloudFormation Guard
- AWS Service Catalog
- AWS Resource Access Manager (AWS RAM)

Module 6: Bonus Topic

- Direct Connect
- Direct Connect + S2S VPN
- Elastic Container Registry (ECR)
- ECR Security
- ECS Secret Management
- EKS Concepts
- Lambda Security
- Lambda in VPC
- Lambda in VPC - Hands On
- AWS Signer
- AWS Verified Access
- Glue Overview
- Glue Security
- Workspaces Security
- ASG Instance Refresh
- EBS - Data Volume Wiping
- CloudShell
- RDS & Aurora Security
- EC2 Image Builder
- Redshift Security
- DynamoDB - Time To Live (TTL)

Total Duration of the course: 1.5 Hours

Your AWS Security Journey Starts Here!

Keep Practicing • Keep Building • Keep Securing

SECURE THE CLOUD. PROTECT THE DATA. BUILD WITH CONFIDENCE.

SQL School

Learn Today. Lead Tomorrow.